Low Pass Filter



DC to 2000 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	9W max. at 25°C
DC Current Input to Output	1A max. at 25°C

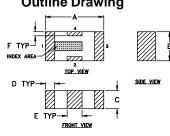
^{*}Passband rating, derate linearly to 4W at 100°C ambient.

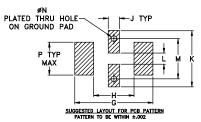
Pin Connections

RF IN	1**
RF OUT	3**
GROUND	2,4

^{**}RF IN & RF OUT can be interchanged

Outline Drawing



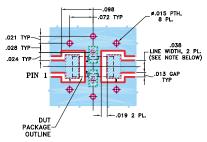


TOLERANCE UNLESS OTHERWISE STATED

2 PLACE DECIMALS: ±.01 3 PLACE DECIMALS: ±.005

Outline Dimensions (inch) 126 .063 .039 .020 .032 .009 .169 .087 1.60 0.99 0.81 4.29 М N .024 .122 024 .087 .012 .071 grams 0.61 0.61 2.21 0.30 1.80

Demo Board MCL P/N: TB-270 Suggested PCB Layout (PL-137)



1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350 WITH DIELECTRIC THICKNESS .020" ± .0015". COPPER: 1/2 0Z. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED. 2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

DENOTES PCB COPPER LAYOUT DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

Features

- · excellent power handling, 9W
- small size
- 5 sections

• temperature stable

· patent pending

Applications

- harmonic rejection
- VHF/UHF transmitters/receivers
- lab use

CASE STYLE: FV1206

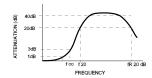
Model	Price	Qty.
LFCN-2400	\$1.99	(10-49)
LFCN-2400D	\$2.49	(10-49)

Low Pass Filter Electrical Specifications¹ (T_{AMB}=25°C)

M	IODEL NO.	PASSBAND (MHz)	fco, MHz Nom.	STOP BAND (MHz) (loss, dB)		vsw	R (:1)	NO. OF SECTIONS	
		(loss < 1.5 dB) Max.	(loss 3 dB) Typ.	f 20 Min.	30 Typ.	fr 20 Typ.	Stopband Typ.	Passband Typ.	
LFC	CN-2400	DC-2400	2800	3600	3700-4000	5000	20	1.2	5

^{1.} For Applications requiring DC voltage to be applied to the Input or output, use LFCN-2400D (DC Resistance to ground is 100 Mohms min.)

typical frequency response

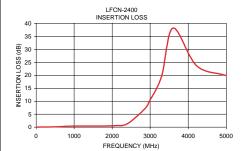


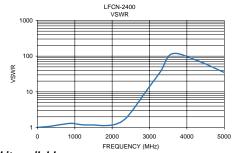
schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
10.00	0.03	1.01	
308.75	0.10	1.07	
607.50	0.20	1.20	
906.25	0.39	1.31	
1205.00	0.41	1.19	
1503.75	0.41	1.17	
1802.50	0.46	1.13	
2101.25	0.62	1.25	
2400.00	1.34	1.97	
2850.00	6.94	8.51	
3000.00	10.53	14.15	
3300.00	19.58	37.77	
3600.00	38.18	115.81	
4222.22	23.66	78.97	
5000.00	19.90	34.75	





designers kit available

Kit No.	No. of Units in Kit	Description	Price \$ per Kit
K2-LFCN		5 of each: LFCN-800,-900,-1000,-1200,-1325,-1700, -2000,-2250,-2400,-5000,-6000,-6700	119.95

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

REV. F